IN THE CLAIMS:

Please amend the claims as follows:

1. (Original) A method to monitor localisation, posture, movement or properties of one or several objects (O) to be monitored, such as human body, animal or robot in an environment to be monitored, such as in apartment, public space, industrial or office space or in an animal shelter characterized in that in some area of the environment to be monitored, for example in a floor, wall, or ceiling there is a transducer (TRANSDUCER MATRIX) which is composed from a distribution of conductor, such as a matrix of conductors, and said distribution of conductor includes at least the first division of conductor and the second division of conductor and that a scanning cycle is performed when to the first division of conductor is an excitation signal (HS) connected and the first signal (AS) is derived from a coupling of the excitation signal (HS) between the first and the second divisions of conductor and said signal (AS) includes some information about coupling between the first and the second divisions of conductor.

2. (Currently Amended) A method according to claim 1 ~~characterized in that~~ wherein said scanning cycle is repeated in respect of other divisions of conductor of the transducer (TRANSDUCER MATRIX).

3. (Currently Amended) A method according to claim 1 ~~or 2 characterized in that~~ wherein from said first signal (AS) one derives some information about some essentially internal properties of the object (O) such as electric conductivity and its variations, distributions of tissues in the body, distribution of fluids, function of the heart or respiration.

4.　　　(Currently Amended)　A method according to ~~any claim above~~ claim 1 wherein ~~characterized in that~~ from said first signal (AS) some information which is characteristic to the object (O) is derived such as information about electrical conductivity and variations in that and said information is used in purposes to recognize the object (O).

5.　　　(Currently Amended)　A method according to ~~any claim above~~ claim 1 wherein ~~characterized in that~~ the excitation signal (HS) evokes the second signal (IS) in special means (EV) and this signal is received by receiving means (V).

6.　　　(Currently Amended)　A method according the claim 5 ~~characterized in that~~ wherein said second signal (IS) contains some information related to the object (O) such as information related to identification or status.

7.　　　(Currently Amended)　A method according to ~~any claim above~~ claim 1 ~~characterized in that~~ wherein information derived from one or both said signals (AS, IS) is evaluated using criteria which are either fixed, preset or adaptable and based on the results of the evaluation one performs known actions, such as control or alarm functions[[,]].

8.　　　(Currently Amended)　A method according to ~~any claim above~~ claim 1 ~~characterized in that~~ wherein information derived from one or both said signals (AS, IS) is stored in memory means in order to observe temporal dependence of behaviour of environments to be

monitored and of objects (O) for example in such a way that at certain moment registered

information which are derived from one or several signals (AS, IS) is stored and this information

is used as reference information at later moments derived information.

9.   (Currently Amended) A method according to ~~any claim above~~ claim 1

~~characterized in that~~ wherein information derived from one or both said signals (AS, IS) is used

to adapt a status of artificial intelligence such as an adaptive or self ~~organising~~ organizing net.

10.   (Original) An arrangement to monitor localisation, posture, movement or

properties of one or several objects (O) to be monitored, such as human body, animal or robot in

an environment to be monitored, such as in apartment, public space, industrial or office space or

in an animal shelter characterized in that it includes transducer means (TRANSDUCER

MATRIX) which is composed from a distribution of conductor including at least the first

division of conductor and the second division of conductor and means to perform a scanning

cycle (CENTRAL UNIT) and means to generate an excitation signal (HS) and means

(MULTIPLEXER) to conduct said excitation signal to the first division of conductor of the

transducer means (TRANSDUCER MATRIX) and means to derive a signal (AS) which is

related to a coupling between said first and second divisions of conductor.

11.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~characterized~~

~~in that~~ wherein it includes means (CENTRAL UNIT) to process the signal AS from transducer

means (TRANSDUCER MATRIX) and to derive information related to properties of the object

(O) such as function of the heart, respiration or electric conductivity.

12.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~11~~

~~characterized in that~~ <u>wherein</u> it signal processing means (CENTRAL UNIT) includes means to

transfer information derived from an object forward via the first transmission path such as via<u>.</u>

13.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~12~~

~~characterized in that~~ <u>wherein</u> the transducer means (TRANSDUCER MATRIX) include

components to detect at least two different physical quantities such as electrical coupling and

acoustic energy.

14.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~13~~

~~characterized in that~~ <u>wherein</u> the signal (AS) produced by the transducer means

(TRANSDUCER MATRIX) is based at least partially on an electric field coupling i.e. capacitive

coupling between the object (O) and the transducer means (TRANSDUCER MATRIX)<u>.</u>

15.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~14~~

~~characterized in that~~ <u>wherein</u> the signal processing means (CENTRAL UNIT) include some

means which are capable to perform some adaptive functions such as neural networks or other

means or artificial intelligence.

16.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~15~~ ~~characterized in that~~ <u>wherein</u> the arrangement includes or to it there are attached some means to store spatial information related to the transducer means (TRANSDUCER MATRIX).

17.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~16~~ ~~characterized in that~~ <u>wherein</u> via the transducer means (TRANSDUCER MATRIX) some information about localization of at least one division of conductor and means to transfer this information forward via another transmission path such as with the excitation signal (HS) or with a radio signal.

18.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~17~~ ~~characterized in that~~ <u>wherein</u> the arrangement includes special means (EV), which generate an additional signal (IS) by an effect of the excitation signal (HS).

19.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~18~~ ~~characterized in that~~ <u>wherein</u> it includes means or to it has been connected means to form a contact via some other transmission path, such through wired or wireless contact, to be used in receiving or transmitting control information, in receiving or transmitting localization information or receiving or transmitting time information or for other communication with other systems such as with a robot.

20.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~19~~ ~~characterized in that~~ wherein information derived from one or several signals (AS, IS, HS) is used to perform some control functions with some means of the arrangements or with some attached means, these functions may include controlling of a robot, lighting, air conditioning, alarm systems or announcement systems or controlling of locking.

21.   (Currently Amended) An arrangement according to [[the]] claim 10 [[-20]] in that it includes means to derive information ~~characterising~~ characterizing movement of an object (O) such as derive speed distribution of movement or quantities which ~~characterises~~ characterizes that[[,]].

22.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~21~~ ~~characterized in that~~ wherein at least some of the distributions of conductor of the transducer (TRANSDUCER MATRIX) are placed near such surfaces, such as floor, wall and ceiling surfaces, on which or near which an object (O) has an access.

23.   (Currently Amended) An arrangement according [[the]] claim 10 ~~22~~ ~~characterized in that~~ wherein at least a some of the distributions of conductor of the transducer (TRANSDUCER MATRIX) are placed near such surfaces of the environment to be monitored such as in surroundings of dangerous or valuable ~~artefacts~~ artifacts.[[.]]

24.   (Currently Amended) An arrangement according to [[the]] claim 10 ~~-23~~

~~characterized in that~~ <u>wherein</u> at least a some of the distributions of conductor of the transducer

(TRANSDUCER MATRIX) is ~~realised~~ <u>realized</u> by using some conductors which are in

constructions such as concrete iron, air conditioning pipes, water pipes or electric conductors.

25.   (Currently Amended) An arrangement according to [[the]] claim 18 ~~-24~~

~~characterized in that~~ <u>wherein</u> the special means (EV) include some means, such as a RFID

circuit, a transducer or an active circuit, in order to implement information in signal (IS)

generated by the special means.

26.   (Currently Amended) An arrangement according to [[the]] claim 18 ~~-25~~

~~characterized in that~~ <u>wherein</u> one or several properties, such as an amplitude or a frequency of

the excitation signal (HS) are different when an signal (IS) generated by the special means (EV)

is evoked referenced to localization of an object (O).